

# Neurology and Rehabilitation

My dog has a spinal problem,  
what next?



**Part 1.** Intervertebral Disc Disease

**Part 2.** Rehabilitation

**Part 3.** Hospitalisation, Home Prep and Bladder Management

**Part 4:** Rehabilitation Advice

**Langford Vets**



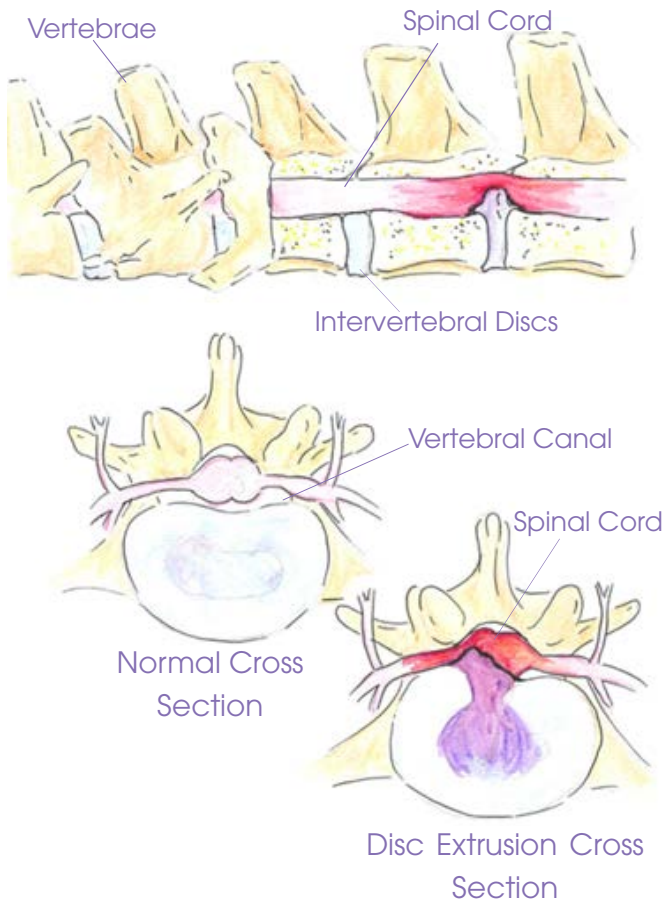
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# Intervertebral Disc Disease (IVDD)

## Disc Extrusion

### What is a disc extrusion or 'slipped disc'?

The intervertebral discs are composed of an outer capsule and an inner gel-like material that act as a shock-absorber between the bones of the spine (vertebrae), when we move.



In chondrodystrophic breeds, such as dachshunds, there is a degeneration of the material within the discs that becomes thicker and more toothpaste-like. This changes the forces distributed across the disc during movement and a sudden force, such as jumping off furniture, can cause the capsule to burst open, releasing or 'herniating' the material into the vertebral canal. This can cause spinal cord compression and bruising.

### Why has my dog been recommended surgery?

The clinical signs of a disc extrusion can vary from pain to paralysis. More severely affected dogs that are unable to walk or use their back legs benefit from surgical decompression of the spinal cord. The main aim of surgery is to remove the compression on the spinal cord and prevent further discs from herniating using a procedure called fenestration. The chance of recovery depends how badly affected dogs are and we feel that dogs that cannot walk benefit from surgery.

Around 10% of dogs that present with no feeling in both back legs can unfortunately deteriorate further, going on to develop myelomalacia. This is an irreversible softening of the spinal cord that ascends the spinal cord and can start to affect the front legs and the muscles used for breathing. If we are concerned that there are signs of this developing, we would discuss this further with you.



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# Intervertebral Disc Disease (IVDD)

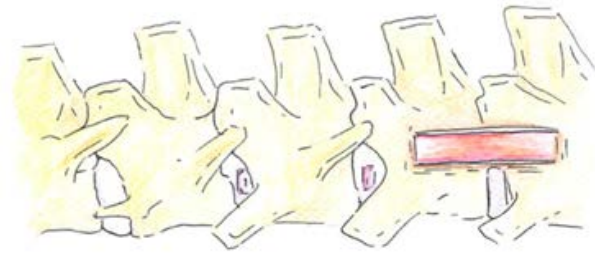
## Disc Extrusion

### What Surgery will be performed?

The surgical procedure performed is a hemilaminectomy, whereby a bony window is created, using a spinal drill, within the vertebrae overlying the spinal cord at the disc site to remove the disc material within the vertebral canal.

A procedure called fenestration is also commonly performed to reduce the rate of the disc that has herniated and several other discs in the surgical site herniating in the future. This is where a hole or small window is created in the side of the disc and some disc material is removed using a needle or sometimes a drill burr.

There are risks associated with any surgery such as bleeding, wound infection or breakdown and the general anaesthetic risk itself.



Hemilaminectomy



Removal of Extruded Disc Material

### What are the Percentages for Recovery?

Description	Recovery Percentage	Recovery Percentage	Average Time Taken to Recover	Average Time Taken to Recover
	Surgery	No Surgery (95% CI)	Surgery	No Surgery
Walking but painful (grade 1) or uncoordinated (grade 2)	98.5%	80%	Up to 2 weeks	3 - 6 weeks
Unable to walk but able to move (grade 3)	93%	81%	1 - 2 weeks	6 - 9 weeks
Paraplegic with nociception (grade 4)	93%	60%	1 - 3 weeks	9 - 12 weeks
Paraplegic without nociception (grade 5)	Around 61%	21% (up to 48% in Dachshunds)	3 - 12 weeks	9 - 12 weeks

# Intervertebral Disc Disease (IVDD) Disc Extrusion

## What are the main risks associated with spinal surgery?

- Trauma to the spinal cord itself or the nerves that arise from the spinal cord
- Risk of entering the chest cavity when approaching the spine overlying the chest region which can create too much air around the lungs called a pneumothorax
- Increased risk of bleeding due to the nature of the vessels within the spinal canal as a mesh or 'network' of vessels rather than tubes

## What happens after surgery?

Following surgery, your dog will be settled into our dedicated neurology ward and monitored to assess their level of comfort, ability to urinate for themselves and for any deterioration post-surgery.

Based on the recommendations made by your clinician, your dog will be assessed by our specialist team of chartered physiotherapists and they will design and implement a physiotherapy and rehabilitation programme specific to your pet.

## How long will my dog need to stay in hospital?

This can vary and mainly depends on the level of nursing care required for your pet, such as bladder management and whether you feel confident at continuing this management at home.

Generally, dogs tend to stay in the hospital until they can urinate independently.

Upon discharge, you will have the opportunity to have an appointment with one of our veterinary physiotherapists

whereby you will be shown how to perform the necessary physiotherapy techniques and exercises to ensure your dog continues to make progress at home.

## What is involved in the aftercare?

The aftercare generally involves 4 weeks of strict rest and physiotherapy, where recommended. This may also include daily bladder expressions if required in dogs that are unable to urinate consciously by themselves. Bladder expression is not technically difficult, and our team of nurses will be able to teach you how to do this.

Dogs with spinal cord injuries can also be prone to developing urine infections and therefore we would ask for you to monitor the colour and smell of your dog's urine.

## What is the prognosis long-term?

The prognosis for dogs that are able to feel their back legs is good to excellent. Some dogs may be left with retained deficits in 10-15% of cases; however these are usually mild and do not affect their quality of life.

The prognosis for dogs that are unable to feel their back legs is 50-60% success rate for return to recovery. The majority of dogs that recover the feeling in their legs do so in the 3-4 weeks post-surgery, some dogs may take longer to recover, however some dogs unfortunately do not regain feeling and remain permanently paralysed. Some dogs that remain permanently paralysed are suitable for mobility carts and can still have a good quality of life.

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# Rehabilitation

## The Rehabilitation Service

### Physiotherapy

During your pets stay at Langford they will be assessed by the physiotherapy team. Physiotherapy aims to restore and improve movement and function through a holistic and evidence-based approach. It is particularly important post operatively where the aim is to retrain and recover spinal cord function. We offer inpatient and outpatient packages as well as hydrotherapy, ultrasound, laser, muscle stimulation, splinting, and cart fitting. We also run a pain clinic offering specialist pain management.



### What are the treatment options?

Physiotherapy treatment is carried out depending on the package selected. This will either be discussed with you by your vet on admission or after your pet's surgery. You can also discuss the best package for you with the nursing team.

**Please see below the different packages we have to offer:**

	Premium £650	Enhanced £375	Tailored £270	Standard £185
Initial Assessment	X	X	X	X
1 Week Review Call	X	X	X	X
3 x Inpatient Treatments	X	X		
Tailored Home Exercises	X	X	X	X
Discharged Call/ Appointment	X	X	X	X
4 x Outpatient Appointments	X			
1 x Outpatient Appointment*		X	X	

\*Either face to face or virtual appointments

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# Hospitalisation, Home Prep and Bladder Management

## In the Hospital

Whilst your pet is staying with us at Langford Small Animal Hospital they will be looked after in our dedicated neurology ward by our veterinary nurses, animal care assistants and physiotherapists where they will receive around the clock care, TLC, and medication such as pain relief as required.



The neurology ward is specifically designed to accommodate patients of all sizes, and we have a range of equipment to assist with mobilisation as well as a range of bedding options from duvets and blankets through to orthopaedic mattresses to ensure they remain comfortable during their stay. We often use a range of enrichment feeders such as snuffle mats and kongs as well as toys and teddies to help our patients feel more at home during their stay.



These pictures show our general set-up for our spinal patients, we have small, medium and large kennels but the basic set-up for all dogs is the same.



All of our patients have regular outdoor time, either going for an assisted walk, or just spending time sat outside enjoying the fresh air. We have our own small garden area, and some very pretty areas within the grounds that allow for some sniffing and chill out time out of their kennels.

Nursing Tier	Examples	Daily Cost (Hospitalisation)	Bladder Management inc.
Tier 1	1 person / basic nursing care time	£189.94	£216.62
Tier 2	2 people / extra time required	£248.75	£275.53
Tier 3	3 - 4 people / hoist requirement	£307.65	£334.43

\* Tiers may change during stay as patient requirements change.

\* Not included in cost; blood samples, blood pressures, fluids and medications etc. (Maintenance fluids daily cost £52)

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# Hospitalisation, Home Prep and Bladder Management

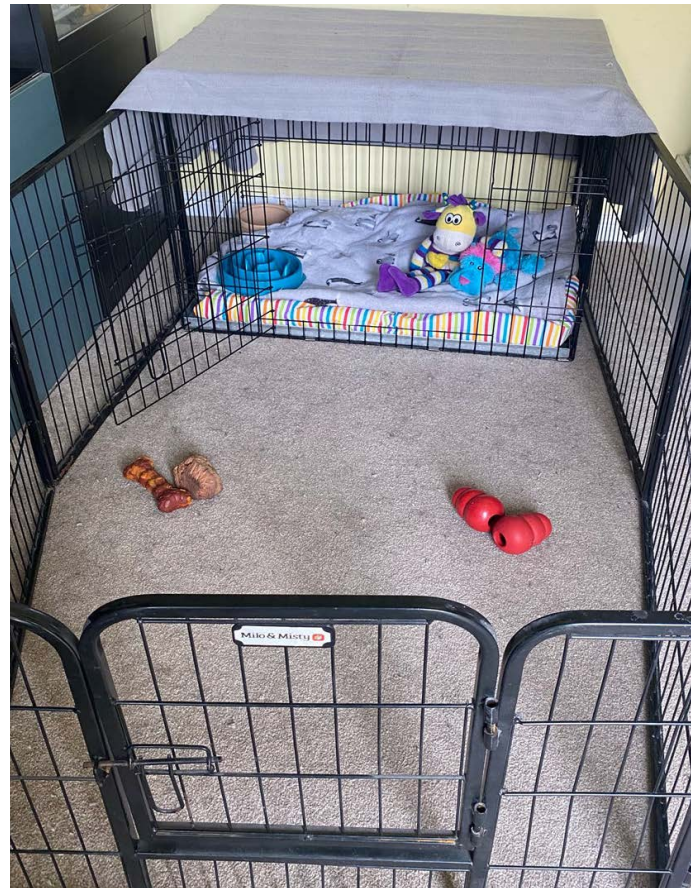
## Home Preparation

We understand that having your pet home after spinal surgery can be very daunting, but we hope that knowing how to prepare beforehand will help.

### Bed Area

For the first 3-4 weeks your pet will need to be on very strict crate rest. This will mean that when left unattended, even for very short periods they will need to be secured. This can either be in a crate or a pen that is a suitable size to house both your pet and allow them to have both food and water in with them.

We recommend that you have soft bedding in the crate and sometimes even a memory foam mattress, but a good duvet is always a popular option. It's a good idea to layer the bedding with puppy pads on top of the duvet and a comfy blanket or vetbed on top. This means that if your pet has an accident whilst in their crate it only messes up the top layer making less washing for you! It may be useful to have a few blankets or vet beds on standby to make it easy to change if needed.



### Enrichment

It is likely that your pet will get bored whilst they are recovering, so we would recommend various enrichment items to provide mental stimulation. See our 'shopping list' for inspiration.

# Hospitalisation, Home Prep and Bladder Management

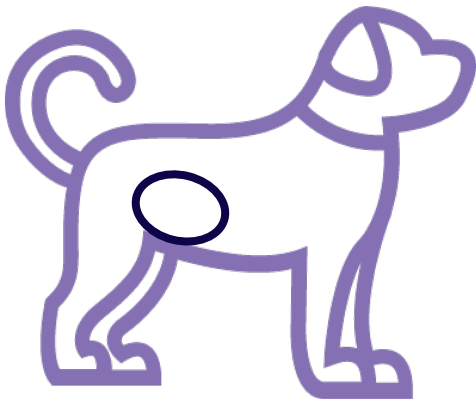
## Bladder Management

A dog may lose their bladder control temporarily or permanently due to injury or illness, meaning that they may require additional intervention such as bladder expression at home.

Using this information alongside a physical demonstration by one of our vets or nurses, we can assist you with learning the technique. It will take practice, and trial and error, but we can offer lots of support and advice. There are also videos that can be found online that you may find useful.

Your pet's bladder may need to be expressed 2 to 3 times daily, however this may vary between individual dogs.

## What to do



### Locating the Bladder

With your dog in a standing or lying down position place the flat parts of your fingers on either side of the abdomen and feel for a balloon shaped object. When full it may feel firmer and easier to find.

### Expressing the Bladder

Once you have located the bladder apply steady even pressure until you get a stream of urine. Keep applying pressure until the urine slows to a dribble or stops. Wait up to thirty seconds to allow the bladder to reform and then try again. You may need to apply more pressure than you would think!

### Urinary Tract Infections

Dogs with spinal cord injuries can also be prone to developing urine infections. Monitor for any change in colour, presence of blood or a strong odour. If you are able to empty most urine from the bladder, this will help reduce the chance of your dog developing an infection.

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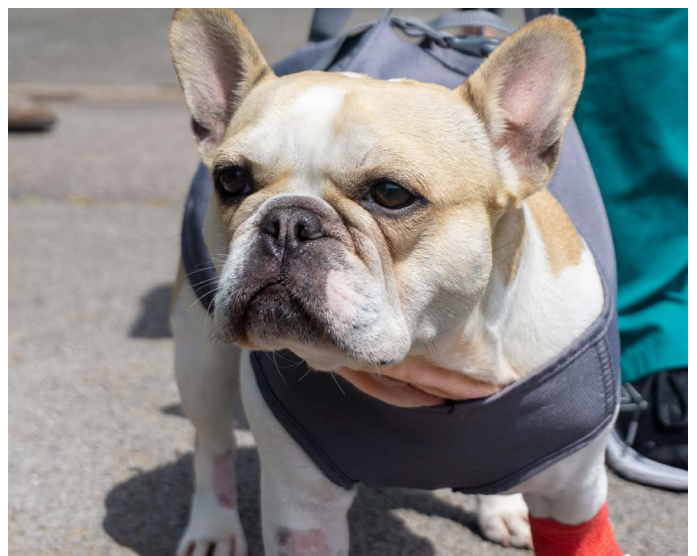
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# Rehabilitation Advice

## Neuro Discharge Shopping List

Please ensure you have the following things in place prior to taking your dog home

- **A Crate or pen** so that you can keep your dog in a small and safe area during their period of cage rest.
- **Non-slip mats** to place onto flooring such as vinyl or laminate so your dog has a grippy surface to stand/walk on. Yoga mats or children's play mats can be a good option for this.
- **Harness and slings** can be purchased from us here at Langford vets. Our team would be happy to advise you on the pieces of equipment you will need for your dog. If you would like us to order a harness or sling from us then please let us know prior to discharge.
- **Puppy training pads** may be useful as your dog may not have full control over their bladder function. Similarly, if you are required to express your dog's bladder these pads are beneficial.
- **Stair gate** if you are unable to prevent your dog from accessing the stairs.
- **Puzzle feeders** such as Kong's and snuffle mats can be a good way to entertain your dog during their period of cage rest.



# Rehabilitation Advice

## Mobility Carts

### Will your dog benefit from a cart?

Carts are an option for dogs who are paraplegic (unable to move their hindlimbs). It can allow your dog to have a more active and independent life.

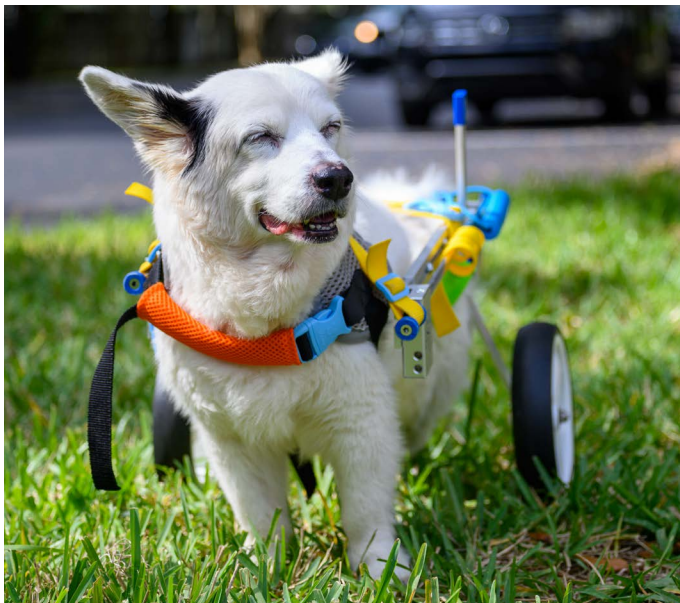
### What do you need to consider?

- We often do not recommend purchasing a cart until at least 3 weeks post-op. This is because we want your dog to try and use their hindlimbs and hopefully regain some function.
- It can take time for dogs to get used to a cart, a gradual introduction is beneficial and it may be 2-3 weeks before they are confident in using one.

### Suppliers for carts

If you do decide to go ahead and purchase a cart for your dog, two places we would recommend are:

- Walkin Wheels (Standard Sizes)  
<http://walkinwheels.com/>
- Eddies Wheels (Custom Built)  
<http://eddieswheels.com>



### Considering getting a cart?

If you are considering getting a cart for your dog, please contact the Rehab Team who will be happy to support you in choosing and fitting a cart.

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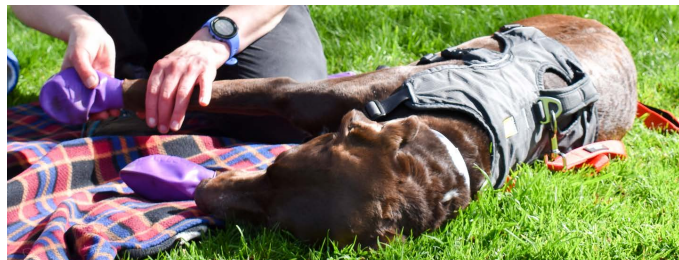
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# FAQ's

## How will I know which rehabilitation package is best?

Your dog will be assessed by the physiotherapy team, and we can guide you on what would be the best package to aid recovery.



## What if my dog exceeds their number of inpatient sessions whilst they are in the hospital?



If your dog needs more inpatient physio sessions than allocated as part of their package, we will ring to discuss this with you. It may be that we put your dog on an additional inpatient physio package or we can charge each session on an individual basis.

## What if I decide to change the package my dog is on?

We will be as flexible as we can to give your dog the best care. If you decide to or we need to change the package that your dog is on, we will first discuss this with you. Following this we will adjust your bill to match the cost of the chosen package. Please note, once inpatient physio treatments have been carried out, these cannot be removed from your bill.

## What will happen if my dog stays in over the weekend after starting a package?

As they have started a package, a physio treatment plan will be provided for the nurses to carry out. If your dog has not started a package at the weekend, the physiotherapy team will assess them on Monday morning.



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